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APPLICATION NO.	APPLICATION NO. FILING DATE 09/647,734 10/04/2000		FIRST NAMED INVENTOR Hiroyuki Katayama	ATTORNEY DOCKET N	CONFIRMATION NO.
09/647,734				55156-(904)	3944
21874	7590	06/22/2004		EX	AMINER
EDWARDS	& ANG	ELL, LLP	NEYZARI, ALI		
P.O. BOX 55				ART UNIT	
BOSTON, N	BOSTON, MA 02205				PAPER NUMBER
				2655	• 1

DATE MAILED: 06/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

7

	Application No.	Applicant(s)				
	09/647,734	KATAYAMA, HIROYUKI				
Office Action Summary	Examiner	Art Unit				
	ALI NEYZARI	2655				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replection of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re bly within the statutory minimum of thirty will apply and will expire SIX (6) MONT e, cause the application to become AB	rply be timely filed r (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 04 0	<u> Dctober 2000</u> .					
,						
3) Since this application is in condition for allowa) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-6 and 10-13</u> is/are pending in the a	application.					
4a) Of the above claim(s) is/are withdra	awn from consideration.					
5)⊠ Claim(s) <u>10-13</u> is/are allowed.						
6)⊠ Claim(s) <u>1</u> is/are rejected.						
7) Claim(s) <u>2-6</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to b	by the Examiner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	,					
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
1. Certified copies of the priority documen						
2. Certified copies of the priority documen	·	•				
3. Copies of the certified copies of the price	*	received in this National Stage				
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,	raceivad				
* See the attached detailed Office action for a list	t of the certified copies flot i	000,76u.				
Attachment(e)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview So	ummary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>7</u>. 	5)	formal Patent Application (PTO-152)				
S. Patent and Trademark Office	,					

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DETAILED ACTION

Preliminary Amendment Acknowledgment

Receipt is acknowledged of preliminary amendment filed on1-2-2001 and 12-19-2000.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent No. 01-258204 (cited by applicant).

Japanese patent No. 01-258204 disclose a magnetic storage medium which consists of a substrate layer 11, magnetic recording layers 23 and 13, superconducting layers 15 and 25. There is provided layer 14 between magnetic layer 13 and superconducting layer 15 (Fig 1 and 4).

Magnetic storage medium of Japanese patent discloses the claimed invention except for the layer 14 being labeled as "insulation" layer.

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However when there is provided a layer between two layers, such layer could act as means for reducing heat transmitted from one layer to the other layer or act as

insulation layer.

Therefore, it would have been obvious to one of ordinary skill in the at the time of

invention was made to use layer 14 of the medium of the Japanese patent as a thermal

insulation layer in order to reduce heat being transmitted from the superconducting layer

15 to the magnetic recording layer 13

Allowable Subject Matter

Claims 10-13 are allowed.

Claims 2-6 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALI NEYZARI whose telephone number is 703-308-4906. The examiner can normally be reached on Mon-Thurs from 7:00 AM TO 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DORIS TO can be reached on 703-305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ali Neyzari 6-18-2004

